

Abstract

5 A substrate for the controlled wetting of predetermined wetting sites with small
fluid volumes comprises a support plate having a horizontal main surface for
wetting with a fluid at predetermined wetting sites, and applied to the support
plate, a flat protective layer that separates the main surface from the
surroundings, the protective layer exhibiting, extending to the main surface of the
10 support plate, vertical recesses that define the predetermined wetting sites on
the support plate and include, leading to the vertical recesses, one or more
supply channels having a reduced flat protective layer thickness for supplying
the wetting fluid to the predetermined wetting sites. According to a further
aspect, the protective layer includes one or more depressions having a reduced
15 flat protective layer thickness for receiving a reservoir volume of wetting fluids
and exhibits, disposed in the depressions, extending to the main surface of the
support plate, vertical recesses that define the predetermined wetting sites on
the support plate and that take up the wetting fluids in the respective
depressions.